Figure 1 : Alignment of N-terminal fragments of Human Hedgehog Proteins

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       1
Indian  CGPGRVVGSR  RRPPRK-LVP  LAYKQFSPNV  PEKTLGASGR  YEGKIARSSE
Sonic   CGPGRGFG-K   RRHPKK-LTP   LAYKQFIPNV  AEKTLGASGR  YEGKISRNSE
Desert  CGPGRGPVGR  RRYARKQLVP  LLYKQFVPGV   PERTLGASGP  AEGRVARGSE


       51
Indian  RFKELTPNYN  PDIIFKDEEN  TGADRLMTQR  CKDRLNSLAI  SVMNQWPGVK
Sonic   RFKELTPNYN  PDIIFKDEEN  TGADRLMTQR  CKDKLNALAI  SVMNQWPGVK
Desert  RFRDLVPNYN  PDIIFKDEEN  SGADRLMTER  CKERVNALAI  AVMNMWPGVR


       101
Indian  LRVTEGWDED  GHHSEESLHY  EGRAVDITTS  DRDRNKYGLL  ARLAVEAGFD
Sonic   LRVTEGWDED  GHHSEESLHY  EGRAVDITTS  DRDRSKYGML  ARLAVEAGFD
Desert  LRVTEGWDED  GHHAQDSLHY  EGRALDITTS  DRDRNKYGLL  ARLAVEAGFD


       151
Indian  WVYYESKAHV  HCSVKSEHSA  AAKTGG    SEQ ID NO: 23
Sonic   WVYYESKAHI  HCSVKAENSV  AAKSGG    SEQ ID NO. 24
Desert  WVYYESRNHV  HVSVKADNSL  AVRAGG    SEQ ID NO. 25
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Gap(s), indicated by -, added to facilitate alignment

Figure 2: SEQ ID NO: 26 is the consensus sequence of a hedgehog protein suitable for use in developing the conjugated proteins of the invention, antagonist, where "Xaa" indicates amino acids that differ between the Sonic, Indian and Desert hedgehog proteins.

C* G P G R Xaa1 Xaa2 Xaa3 Xaa4 Xaa5   R R Xaa6 Xaa7 Xaa8 K Xaa9 L Xaa10 P

L Xaa11 Y K Q F Xaa12 P Xaa13 V   Xaa14 E K T L G A S G R

Xaa15 E G K Xaa16 Xaa17 R Xaa18 S E   R F K Xaa19 L Xaa20 P N Y N

P D I I F K D E E N   Xaa21 G A D R L M T Xaa22 R

C K Xaa23 Xaa24 Xaa25 N S L A I   Xaa26 V M N Xaa27 W P G V K

L R V T E G W D E D   G H H X2aa8 Xaa29 Xaa30 S L H Y
E G R A V D I T T S   D R D R Xaa31 K Y G Xaa32 L

A R L A V E A G F D   W V Y Y E S Xaa33 Xaa34 H Xaa35

H Xaa36 S V K Xaa37 Xaa38   Xaa39 S Xaa40 A A Xaa41 Xaa42 G G

Where
C* is a cysteine that may be modified, altered or substituted within another moiety or series of moieties as described herein;

Xaa1 is either V or G;   Xaa2 is either V, E or P   Xaa3 is either G or V
Xaa4 is either S or G;   Xaa5 is either R or K;   Xaa6 is either P, H or Y;
Xaa7 is either P or A;   Xaa8 is either R or K;   Xaa9 is any amino acid;
        Xaa10 is either V or T;   Xaa11 is either A or L;
Xaa12 is either S, I or V;   Xaa13 is either N or G;   Xaa14 is either P or A;
Xaa15 is either Y or A;   Xaa16 is either I or V;   Xaa17 is either A or S;
Xaa18 is either S, N or G;   Xaa19 is either E or D;   Xaa20 is either T or V;
Xaa21 is either T or S;   Xaa22 is either Q or E;   Xaa23 is either D or E;
Xaa24 is either R or K;   Xaa25 is either L or V;   Xaa26 is either S or A;
Xaa27 is either Q or M;   Xaa28 is either S or A;   Xaa29 is either E or Q;
Xaa30 is either E or D;   Xaa31 is either N or S;   Xaa32 is either L or M;
Xaa33 is either K or R;   Xaa34 is either A or N;   Xaa35 is either V or I;
Xaa36 is either C or V;   Xaa37 is either S or A;   Xaa38 is either E or D;
Xaa39 is either H or N;   Xaa40 is either A, V or L;   Xaa41 is either K or R; and
Xaa42 is either T, S or A.